



JPW

PATENT  
ATTORNEY DOCKET NO. 041465-5200

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of: )  
Koichi KATSUYA )  
Application No.: 10/662,387 )  
Filed: 09/16/03 )

Title: METHOD AND APPARATUS FOR  
REMOVING NOISE FROM AUDIO FRAME  
DATA

Commissioner for Patents  
U.S. Patent and Trademark Office  
Alexandria, VA 22314

Sir:

**CHANGE OF CORRESPONDENCE ADDRESS**

Please enter the correspondence address of this application as:

**Customer Number 55694**

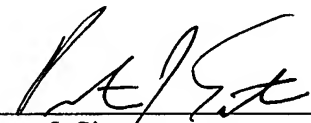
A new power of attorney appointing the undersigned is being filed concurrently herewith. If there is any fee due in connection with the filing of this paper, please charge the fee to our Deposit Account No. 50-0573.

Respectfully submitted,

**DRINKER, BIDDLE & REATH LLP**

Dated: January 18, 2006

By:

  
Peter J. Sisti  
Registration No. 48,183

**CUSTOMER NO. 55694**  
**DRINKER, BIDDLE & REATH LLP**  
1500 K Street, N.W., Suite 1100  
Washington, D.C. 20005-1209  
Tel: (202) 842-8800  
Fax: (202) 842-8465



PATENT  
ATTORNEY DOCKET NO. 041465-5200

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
)  
Koichi KATSUYA )  
)  
Application No.: 10/662,387 )  
)  
Filed: 09/16/03 )

Title: METHOD AND APPARATUS FOR  
REMOVING NOISE FROM AUDIO FRAME  
DATA

Commissioner for Patents  
U. S. Patent and Trademark Office  
Alexandria, VA 22314

Sir:

**SUBMISSION OF REVOCATION OF ORIGINAL POWER OF ATTORNEY  
AND GRANT OF NEW POWER OF ATTORNEY**


Enclosed is a copy of the Revocation of Original Power of Attorney and Grant of New Power of Attorney by the Assignee.

If there is any fee due in connection with the filing of this paper, please charge the fee to our Deposit Account No. 50-0573.

Respectfully submitted,

**DRINKER, BIDDLE & REATH LLP**

Dated: January 18, 2006

By:   
Peter J. Sistare  
Registration No. 48,183

**CUSTOMER NO. 55694**  
**DRINKER, BIDDLE & REATH LLP**  
1500 K Street, N.W., Suite 1100  
Washington, D.C. 20005-1209  
Tel: (202) 842-8800  
Fax: (202) 842-8465



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assignee: **PIONEER CORPORATION**

Commissioner for Patents

Washington, D.C. 20231

**REVOCATION AND NEW POWER OF ATTORNEY**

Under 37 CFR §3.73(b), **PIONEER CORPORATION**, a Japanese corporation, certifies that it is an assignee of the patent applications and issued patents identified in the following chart by virtue of respective Assignment documents for each listed application and patent from the inventor(s) to **PIONEER CORPORATION** submitted to the U.S. Patent and Trademark Office. The dates on which the assignments were submitted and the reel/frame numbers at which the assignments were recorded are indicated in the chart below when known.

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
05/23/95	041465-0002	08/450,952	5,697,080	12/09/97	07/06/95; 7545/0112
11/02/94	041465-5003	08/333,326	5,600,615	02/04/97	11/02/94; 7191/0280
10/13/95	041465-5004	08/543,083	5,734,631	03/31/98	10/13/95; 7837/0471
02/01/96	041465-5007	08/595,196	5,757,742	05/26/98	02/01/96; 7861/0266
03/26/98	041465-5007-01	09/048,217	5,910,937	06/08/99	02/01/96; 7861/0266
03/06/96	041465-5008-01	08/611,753	5,892,748	04/06/99	03/06/96; 7913/0363
03/29/96	041465-5009	08/623,821	5,703,864	12/30/97	03/29/96; 7939/0077
06/27/96	041465-5012	08/670,533	5,886,965	03/23/99	06/27/96; 8071/0759
06/28/96	041465-5013	08/671,652	5,758,008	05/26/98	06/28/96; 8068/0555
07/02/96	041465-5014	08/677,452	5,636,186	06/03/97	07/02/96; 8082/0131
07/03/96	041465-5015	08/675,016	5,892,983	04/06/99	07/03/96; 8087/0944
07/09/96	041465-5016	08/677,196	5,787,222	07/28/98	07/09/96; 8107/0515
06/02/98	041465-5016-01	09/088,379	6,160,951	12/12/00	07/09/96; 8107/0515
01/12/99	041465-5017-01	08/747,666	5,978,347	11/02/99	11/12/96; 8314/0092
08/18/99	041465-5017-02	09/376,295	6,175,545	01/16/01	11/12/96; 8314/0092
11/13/96	041465-5018	08/748,029	5,729,522	03/17/98	11/12/96; 8315/0887
01/30/97	041465-5019	08/791,316	5,886,970	03/23/99	10/10/97; 8743/0042
04/26/00	041465-5020-01	08/806,458	6,236,804	05/22/01	09/30/97; 8757/0863
04/02/01	041465-5020-02	09/822,259	6,741,797	05/25/04	09/30/97; 8757/0863

Assignee : PIONEER CORPORATION

Page : 2

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
03/27/02	041465-5020-03	10/106,355			09/30/97; 8757/0863
02/26/97	041465-5021	08/806,459	6,006,004	12/21/99	09/30/97; 8757/0818
09/24/99	041465-5021-01	09/404,765	6,253,018	06/26/01	09/30/97; 8757/0818
02/12/01	041465-5021-02	09/780,384	6,396,997	05/28/02	09/30/97; 8757/0818
03/20/02	041465-5021-03	10/101,333			09/30/97; 8757/0818
03/14/97	041465-5022	08/816,941	6,085,021	07/04/00	03/14/97; 8590/0393
03/06/97	041465-5023	08/812,882	6,108,486	08/22/00	07/17/97; 8618/0444
03/11/97	041465-5024	08/815,184	5,960,152	09/28/99	08/25/97; 8675/0804
3/13/97	041465-5025	08/816,686	6,148,138	11/14/00	03/13/97; 8440/0330
03/11/97	041465-5026	08/815,162	5,729,516	03/17/98	03/11/97; 8440/0113
09/29/98	041465-5027-01	08/815,956	6,031,962	02/29/00	03/13/97; 8457/0610
03/13/97	041465-5028	08/816,889	5,933,569	08/03/99	08/27/03; 14441/0983
03/17/97	041465-5029	08/819,861	5,805,537	09/08/98	09/05/97; 8696/0064
04/13/99	041465-5030-02	08/820,257	6,104,684	08/15/00	03/18/97; 8462/0522
04/28/00	041465-5030-03	09/559,971	6,757,483	06/29/04	03/18/97; 8462/0522
06/02/04	041465-5030-04	10/858,268			03/18/97; 8462/0522
03/17/97	041465-5031	08/822,157	6,091,674	07/18/00	09/30/97; 8757/0845
03/17/97	041465-5032	08/819,012	6,157,769	12/05/00	03/17/97; 8453/0647
08/17/00	041465-5032-01	09/639,887	6,501,903	12/31/02	12/09/03; 14178/0529
05/29/02	041465-5032-02	10/156,393			12/09/03; 14178/0529
03/17/97	041465-5033	08/819,011	6,014,495	01/11/00	03/17/97; 8453/0640
12/02/99	041465-5033-01	09/452,889	6,778,761	08/17/04	03/17/97; 8453/0640
06/27/03	041465-5034-03	10/606,831			03/28/02; 12713/0974
03/18/97	041465-5035	08/820,256	5,966,352	10/12/99	03/18/97; 8462/0495
03/20/97	041465-5036	08/825,560	5,889,746	03/30/99	03/20/97; 9333/0261
03/21/97	041465-5037	08/821,424	6,137,954	10/24/00	03/21/97; 8476/0385
08/30/00	041465-5038-01	08/822,457	6,212,330	04/03/01	03/21/97; 8465/0613
03/21/97	041465-5039	08/821,920	5,742,569	04/21/98	03/21/97; 8536/0356
04/01/97	041465-5040	08/831,716	6,088,506	07/11/00	09/05/97; 8696/0061
11/15/99	041465-5040-01	09/440,290	6,266,478	07/24/01	09/05/97; 8696/0061
05/23/01	041465-5040-02	09/862,457	6,567,612	05/20/03	09/05/97; 8696/0061
05/02/03	041465-5040-03	10/427,970			09/05/97; 8696/0061
10/12/99	041465-5041-01	08/834,806	6,215,952	04/10/01	09/12/97; 8696/0128
05/23/01	041465-5041-02	09/731,653			09/12/97; 8696/0128

Assignee : PIONEER CORPORATION

Page : 3

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
04/07/97	041465-5042	08/833,476	5,936,925	08/10/99	01/26/98; 9093/0410
06/20/97	041465-5043	08/879,969	6,058,087	05/02/00	06/20/97; 8661/0104
11/09/00	041465-5044-01	08/897,033	6,272,332	08/07/01	07/18/97; 8696/0425
11/09/00	041465-5044-02	09/708,503	6,526,285	02/25/03	07/18/87; 8689/0425
08/01/97	041465-5045	08/905,044	5,896,353	04/20/99	08/01/97; 8737/0950
08/20/97	041465-5046	08/915,649	5,815,472	09/29/98	08/20/97; 8771/0962
08/22/97	041465-5047	08/916,326	5,917,793	06/29/99	08/22/97; 8774/0518
09/02/97	041465-5048	08/921,460	5,985,792	11/16/99	09/02/97; 8785/0322
04/16/98	041465-5049	09/060,961	6,104,019	08/15/00	04/16/98; 9106/0391
06/19/98	041465-5050	09/100,098	5,991,244	11/23/99	06/19/98; 9263/0379
08/05/98	041465-5051	09/129,420	6,094,638	07/25/00	08/05/98; 9369/0435
11/27/98	041465-5052	09/200,428	6,272,082	08/07/01	11/25/98; 9617/0643
07/25/01	041465-5052-01	09/911,788	6,396,781	05/28/02	11/25/98; 9617/0643
04/09/02	041465-5052-02	10/118,234	6,574,187	06/03/03	11/25/98; 9617/0643
08/20/02	041465-5053-01	09/200,430			11/25/98; 9617/0619
12/23/98	041465-5054	09/219,778	6,198,085	03/06/01	12/23/98; 9679/0182
01/20/99	041465-5056	09/233,423	6,507,541	01/14/03	01/20/99; 9713/0689
07/22/02	041465-5056-01	10/199,019	6,680,890	01/20/04	01/20/99; 9713/0689
02/18/99	041465-5058	09/251,740	6,212,141	04/03/01	02/18/99; 9784/0616
03/08/99	041465-5059	09/263,851	6,219,309	04/17/01	03/08/99; 9820/0553
04/11/01	041465-5059-01	09/829,904	6,549,496	04/15/03	03/08/99; 9820/0553
02/28/03	041465-5059-02	10/375,009			03/08/99; 9820/0553
03/16/99	041465-5060	09/270,658	6,308,006	10/23/01	03/16/99; 9828/0089
08/31/01	041465-5060-01	09/942,584	6,760,540	07/06/04	03/16/99; 9828/0089
05/24/04	041465-5060-02	10/851,327			03/16/99; 9828/0089
03/12/99	041465-5061	09/266,780	6,850,690	02/01/05	03/12/99; 9818/0136
03/18/99	041465-5062	09/270,828	6,449,015	09/10/02	03/18/99; 9837/0870
03/19/99	041465-5063	09/271,990	6,343,055	01/29/02	07/16/99; 10234/0058
01/29/02	041465-5064-01	10/058,098	6,859,421	02/22/05	04/09/99; 9894/0803
07/24/02	041465-5064-02	09/288,641	6,687,211	02/03/04	04/09/99; 9894/0803
01/05/05	041465-5064-03	11/028,863			04/09/99; 9894/0803
04/09/99	041465-5065	09/288,643			04/09/99; 9894/0747
06/07/05	041465-5065-01	11/146,161			04/09/99; 9894/0747
10/05/99	041465-5067	09/412,309			10/05/99; 10302/0737

Assignee : PIONEER CORPORATION

Page : 4

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
10/28/99	041465-5068	09/428,943	6,442,111	08/27/02	10/28/99; 10353/0608
10/28/99	041465-5069	09/429,559	6,411,576	06/25/02	10/28/99; 10353/0406
10/29/99	041465-5070	09/429,615	6,381,206	04/30/02	10/29/99; 10459/0429
11/24/99	041465-5071	09/444,719	6,571,055	05/27/03	11/24/99; 10431/0851
11/23/99	041465-5072	09/447,416	6,577,589	06/10/03	11/23/99; 10432/0520
11/05/02	041465-5073-01	09/482,918	6,545,965	04/08/03	01/14/00; 10524/0952
01/24/00	041465-5075	09/490,870	6,272,105	08/07/01	01/24/00; 10585/0960
03/17/00	041465-5076	09/527,457	6,487,160	11/26/02	03/17/00; 10698/0247
04/14/00	041465-5077	09/550,078			
06/06/00	041465-5078	09/588,660	6,370,097	04/09/02	06/06/00; 10877/0939
12/27/99	041465-5079	09/472,504	6,879,771	04/12/05	12/27/99; 10502/0467
06/27/00	041465-5081	09/604,398			06/27/00; 10934/0044
06/30/00	041465-5082	09/608,962	6,674,706	01/06/04	06/30/00; 10975/0295
07/27/00	041465-5083	09/627,304			07/27/00; 11054/0149
08/17/00	041465-5084	09/639,888	6,546,258	04/08/03	08/17/00; 11054/0596
08/18/00	041465-5085	09/640,779	6,552,983	04/22/03	08/18/00; 11054/0811
09/08/00	041465-5086	09/658,877			09/18/00; 11328/0811
09/08/00	041465-5087	09/657,805	6,701,468	03/02/04	09/08/00; 11146/0366
09/28/00	041465-5088	09/617,112	6,345,033	02/05/02	09/28/00; 11209/0620
10/04/00	041465-5089	09/679,049			10/04/00; 11210/0377
10/13/00	041465-5090	09/689,825	6,434,091	08/13/02	10/13/00; 11282/0737
07/17/02	041465-5090-01	10/196,250	6,587,428	07/01/03	10/13/00; 11282/0737
10/27/00	041465-5091	09/697,738	6,560,174	05/06/03	10/27/00; 11266/0377
12/07/00	041465-5092	09/730,797	6,556,920	04/29/03	12/07/00; 11359/0649
12/13/00	041465-5093	09/734,678	6,876,922	04/05/05	12/13/00; 11362/0007
12/14/00	041465-5094	09/735,514	6,738,710	05/18/04	12/14/00; 11382/0687
12/22/00	041465-5095	09/742,328	6,516,269	02/04/03	12/22/00; 11406/0723
12/28/00	041465-5096	09/749,177	6,728,181	04/27/04	12/28/00; 11413/0666
02/28/01	041465-5097	09/794,115	6,556,302	04-29-03	02/28/01; 11578/0103
02/27/01	041465-5098	09/793,583	6,449,222	09/10/02	02/27/01; 11576/0534
03/01/01	041465-5099	09/795,346			03/01/01; 11584/0128
03/20/01	041465-5100	09/811,624	6,545,956	04/08/03	03/20/01; 11632/0090
03/14/01	041465-5101	09/805,361	6,781,637	08/24/04	03/14/01; 11631/0756
03/28/01	041465-5102	09/818,632			03/28/01; 11646/0731

Please correct the Serial Number to read "09/671, 112."

Assignee : PIONEER CORPORATION

Page : 5

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
03/27/01	041465-5103	09/817,246			03/27/01; 11662/0358
03/27/01	041465-5104	09/817,245			03/27/01; 11662/0366
03/29/01	041465-5105	09/819,978	6,757,229	06/29/04	07/05/01; 11948/0188
04/03/01	041465-5106	09/823,980	6,724,703	04/20/04	04/03/01; 11678/0508
01/23/04	041465-5106-01	10/762,313			04/03/01; 11678/0508
04/04/01	041465-5107	09/824,717	6,885,773	04/26/05	04/04/01; 11677/0573
04/05/01	041465-5108	09/826,009			04/05/01; 11691/0098
04/20/01	041465-5109	09/838,259			04/20/01; 11734/0748
04/27/01	041465-5110	09/846,557	RE38602	09/28/04	06/24/96; 8079/0950
05/09/01	041465-5111	09/851,391			05/09/01; 11792/0359
06/27/01	041465-5112	09/891,470			06/27/01; 11941/0266
07/09/01	041465-5113	09/900,152	6,898,160	05/24/05	07/09/01; 11973/0809
07/25/01	041465-5114	09/911,424	6,813,237	11/02/04	07/25/01; 12019/0788
12/10/03	041465-5114-01	10/730,981			07/25/01; 12019/0788
08/08/01	041465-5115	09/924,055			
08/15/01	041465-5116	09/929,108			08/15/01; 12084/0016
08/15/01	041465-5117	09/929,109			08/15/01; 12084/0013
08/15/01	041465-5118	09/929,110			08/15/01; 12082/0907
09/14/01	041465-5119	09/951,437			09/14/01; 12173/0927
09/19/01	041465-5120	09/955,117	6,657,939	12/02/03	09/19/01; 12182/0825
09/19/01	041465-5121	09/955,239	6,804,187	10/12/04	09/19/01; 12181/0564
10/01/01	041465-5122	09/966,066			10/01/01; 12221/0632
10/02/01	041465-5123	09/968,502			10/02/01; 12226/0483
10/12/01	041465-5124	09/974,825	6,735,153	05/11/04	10/12/01; 12254/0764
02/17/04	041465-5124-01	10/778,213			10/12/01; 12254/0764
11/06/01	041465-5126	09/985,836			11/06/01; 12299/0153
11/23/01	041465-5128	09/990,372			11/23/01; 12321/0008
11/23/01	041465-5129	09/990,343			11/23/01; 12320/0875
08/10/04	041465-5129-01	10/914,267			11/23/01; 12320/0875
08/10/04	041465-5129-02	10/914,266			11/23/01; 12320/0875
08/10/04	041465-5129-03	10/914,186			11/23/01; 12320/0875
12/17/01	041465-5130	10/015,895			12/17/01; 12389/0133
12/26/01	041465-5131	10/025,809			12/26/01; 12397/0745
12/26/01	041465-5132	10/025,810	6,738,212	05/18/04	12/26/01; 12397/0885

Assignee : PIONEER CORPORATION

Page : 6

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
01/10/02	041465-5133	10/041,473			01/10/02; 12460/0908
01/30/02	041465-5134	10/058,857	6,880,164	04/12/05	01/30/02; 12543/0972
10/29/04	041465-5134-01	10/975,549			01/30/02; 12543/0972
10/29/04	041465-5134-02	10/975,421			01/30/02; 12543/0972
02/08/02	041465-5135	10/068,024			02/08/02; 12671/0504
02/08/02	041465-5136	10/067,770	6,839,313	01/04/05	02/08/02; 12578/0435
02/14/02	041465-5139	10/073,867			02/14/02; 12599/0077
02/19/02	041465-5140	10/076,602			02/19/02; 12620/0576
02/27/02	041465-5141	10/083,648	6,678,165	01/13/04	02/27/02; 12643/0297
10/20/03	041465-5141-01	10/687,704			02/27/02; 12643/0297
03/06/02	041465-5142	10/091,332			03/06/02; 12672/0990
03/12/02	041465-5143	10/094,621			03/12/02; 12694/0425
03/26/02	041465-5145	10/105,946			03/26/02; 12739/0388
04/10/02	041465-5146	10/119,117			04/10/02; 12791/0619
06/09/04	041465-5146-01	10/863,236			04/10/02; 12791/0619
04/17/02	041465-5147	10/123,884	6,690,574	02/10/04	04/17/02; 12812/0702
04/25/02	041465-5148	10/131,217			04/25/02; 12838/0574
05/02/02	041465-5149	10/136,445			08/01/02; 13217/0279
05/06/02	041465-5150	10/138,638	6,687,204	02/03/04	05/06/02; 12870/0965
05/06/02	041465-5151	10/138,779	6,907,611	06/14/05	05/06/02; 12869/0104
05/15/02	041465-5152	10/144,864	6,657,482	12/02/03	05/15/02; 12907/0301
05/16/02	041465-5153	10/145,812	6,621,436	09/16/03	05/16/02; 12907/0532
05/09/02	041465-5154	10/141,081	6,700,519	03/02/04	05/09/02; 12892/0022
06/26/02	041465-5155	10/179,890			06/26/02; 13058/0275
06/25/02	041465-5156	10/178,473			06/25/02; 13058/0214
06/25/02	041465-5157	10/178,729			06/25/02; 13058/0231
06/12/02	041465-5158	10/166,727			09/12/02; 13298/0004
06/12/02	041465-5159	10/166,718			09/12/02; 13294/0581
06/28/02	041465-5160	10/183,162	6,888,516	05/03/05	06/26/02; 13060/0921
06/26/02	041465-5161	10/179,889			06/26/02; 13058/0347
07/16/02	041465-5162	10/195,809			07/16/02; 13112/0820
09/03/02	041465-5164	10/233,113	6,804,590	10/12/04	09/03/02; 13263/0114
09/06/02	041465-5165	10/235,853			12/03/02; 13550/0712
09/11/02	041465-5166	10/238,619			09/11/02; 13281/0585



Assignee : PIONEER CORPORATION

Page : 7

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
09/11/02	041465-5167	10/238,617			09/11/02; 13281/0519
09/24/02	041465-5168	10/252,571	6,822,210	11/23/04	09/24/02; 13322/0417
09/13/02	041465-5169	10/242,673			12/11/02; 13576/0043
09/26/02	041465-5170	10/254,766			09/26/02; 13337/0624
12/06/02	041465-5173	10/313,015			12/06/02; 13556/0595
01/10/03	041465-5174	10/339,664			06/09/03; 14158/0657
02/10/03	041465-5176	10/360,707			02/10/03; 13754/0739
02/27/03	041465-5177	10/374,093			02/27/03; 13829/0953
10/31/03	041465-5179	10/398,183			10/31/03; 14721/0153
03/30/05	041465-5179-01	11/092,827			10/31/03; 14721/0153
03/31/03	041465-5180	10/401,687			03/31/03; 13929/0488
04/08/03	041465-5181	10/408,279	6,937,547	08/30/05	04/08/03; 13969/0448
04/14/03	041465-5182	10/412,691			08/20/03; 14417/0092
04/16/03	041465-5183	10/414,312			04/16/03; 13978/0775
04/15/03	041465-5184	10/413,546			04/15/03; 13982/0028
04/16/03	041465-5185	10/413,999			04/16/03; 13978/0779
04/16/03	041465-5186	10/414,503	6,781,526	08/24/04	09/17/03; 14508/0558
04/21/03	041465-5187	10/419,259			04/21/03; 13991/0038
05/19/03	041465-5188	10/440,326			05/19/03; 14104/0450
06/05/03	041465-5189	10/433,565			06/05/03; 14478/0119
06/20/03	041465-5190	10/465,893	6,873,275	03/29/05	06/20/03; 14211/0106
06/16/03	041465-5191	10/461,511			06/16/03; 14187/0504
06/24/03	041465-5192	10/602,033			06/24/03; 14228/0476
07/02/03	041465-5193	10/610,695			07/02/03; 14270/0624
07/17/03	041465-5194	10/620,802			12/02/03; 14750/0354
08/27/03	041465-5195	10/648,345			08/27/03; 14441/0983
08/26/03	041465-5196	10/647,589			08/26/03; 14430/0664
08/28/03	041465-5197	10/649,858			08/28/03; 14449/0435
08/29/03	041465-5198	10/650,996			08/29/03; 14471/0669
09/22/03	041465-5199	10/664,897			09/22/03; 14526/0282
09/16/03	041465-5200	10/662,387			09/16/03; 14514/0365
09/30/03	041465-5201	10/673,515			09/30/03; 14550/0442
10/07/03	041465-5202	10/679,430			11/19/02; 13503/0897
10/07/03	041465-5203	10/679,361	6,845,078	01/18/05	10/07/03; 14593/0813

Assignee : PIONEER CORPORATION

Page : 8

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
10/15/03	041465-5204	10/686,283			10/15/03; 14618/0175
10/27/03	041465-5205	10/475,916			10/27/03; 15154/0840
10/15/03	041465-5206	10/684,500			10/15/03; 14614/0689
10/23/03	041465-5207	10/690,506			10/23/03; 14632/0387
10/24/03	041465-5208	10/691,709			10/24/03; 14633/0783
10/29/03	041465-5209	10/694,946			10/29/03; 14660/0609
05/21/99	041465-5210	09/315,980	6,889,002	05/03/05	08/13/99; 10165/0113
10/30/03	041465-5211	10/695,955			10/30/03; 14660/0472
11/17/03	041465-5212	10/713,038			11/17/03; 14712/0648
11/18/03	041465-5213	10/714,625			11/18/03; 14711/0312
12/02/03	041465-5214	10/724,626			12/02/03; 14767/0800
01/09/04	041465-5215	10/753,533			01/09/04; 14880/0142
01/09/04	041465-5216	10/753,450			01/09/04; 14888/0185
03/05/04	041465-5217	10/793,252			03/05/04; 15064/0475
02/23/04	041465-5218	10/782,868			02/23/04; 15013/0176
03/12/04	041465-5219	10/798,944			03/12/04; 15095/0032
04/15/04	041465-5220	10/824,589			10/21/04; 15222/0965
04/15/04	041465-5221	10/824,595			04/15/04; 15222/0972
04/07/04	041465-5222	10/819,106			04/07/04; 15189/0134
04/08/04	041465-5223	10/820,225			08/23/04; 15731/0147
05/07/04	041465-5224	10/840,257			05/07/04; 15307/0136
04/23/04	041465-5225	10/830,221			04/23/04; 15260/0754
05/07/04	041465-5226	10/840,479			05/07/04; 15316/0959
05/07/04	041465-5227	10/840,513			07/11/02; 13105/0660
05/12/04	041465-5228	10/495,216			05/12/04; 16128/0470
06/02/04	041465-5229	10/858,383			06/02/04; 15447/0777
07/23/04	041465-5230	10/896,883			07/23/04; 15616/0654
07/22/04	041465-5231	10/895,944			07/22/04; 15615/0967
07/23/04	041465-5232	10/896,878			07/23/04; 15616/0663
07/28/04	041465-5233	10/900,327			07/28/04; 15630/0331
07/28/04	041465-5234	10/900,328			07/28/04; 15631/0327
08/09/04	041465-5235	10/913,504			11/15/04; 15992/0207
08/09/04	041465-5236	10/913,492			11/15/02; 15992/0214
08/23/04	041465-5237	10/922,827			08/23/04; 15719/0015

Assignee : PIONEER CORPORATION

Page : 9

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
09/17/04	041465-5238	10/942,847			09/07/04; 15805/0136
08/27/04	041465-5239	10/927,527			11/19/04; 16008/0534
09/03/04	041465-5240	10/506,506			09/30/04; 16266/0320
09/03/04	041465-5241	10/506,515			09/03/04; 16294/0223
09/03/04	041465-5242	10/506,503			09/03/04; 16415/0281
09/03/04	041465-5243	10/506,527			09/03/04; 16233/0604
09/20/04	041465-5244	10/944,047			09/20/04; 15812/0565
09/14/04	041465-5245	10/939,435			09/14/04; 15795/0141
09/29/04	041465-5246	10/951,895			09/29/04; 15850/0215
10/12/04	041465-5247	10/961,141			10/12/04; 15885/0664
10/05/04	041465-5248	10/957,979			10/05/04; 15874/0974
10/13/04	041465-5249	10/962,757			12/09/04; 16061/0890
11/02/04	041465-5250	10/978,418			11/02/04; 15949/0427
11/23/04	041465-5251	10/994,653			
11/10/04	041465-5252	10/984,757			
11/23/04	041465-5253	10/995,088			
12/01/04	041465-5254	10/999,962			
02/24/05	041465-5255	10/525,527			
01/10/05	041465-5256	10/520,665			
02/14/05	041465-5257	10/524,414			
02/25/05	041465-5258	10/525,641			
02/18/05	041465-5259	11/060,780			
02/25/05	041465-5260	11/066,003			
03/14/05	041465-5261	11/078,700			
03/22/05	041465-5262	11/085,130			
03/23/05	041465-5263	11/086,669			
03/29/05	041465-5264	11/091,716			

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

Assignee : PIONEER CORPORATION

Page : 10

Acting on behalf of the assignee, the undersigned hereby revokes all powers of attorney previously granted in these applications and patents and appoints:

Customer Number 55694  
DRINKER BIDDLE & REATH LLP  
1500 K Street, N.W., Suite 1100  
Washington, DC 20005

with full power of substitution and revocation, to prosecute the applications and to transact all business in the United States Patent and Trademark Office connected with these patent applications and issued patents.

All correspondence regarding these applications should be sent to JOHN G. SMITH at:

Customer Number 55694  
DRINKER BIDDLE & REATH LLP  
1500 K Street, N.W., Suite 1100  
Washington, DC 20005

Respectfully submitted,

Date: December 9, 2005

Kenichiro Yasukawa

Kenichiro Yasukawa  
General Manager  
Intellectual Property Division  
Patent Application Group  
Research & Development Group  
PIONEER CORPORATION  
1-4-1 Meguro, Meguro-ku  
Tokyo 153-8654, Japan